# Reflections for *Today*from The Great Easter 1913 Flood

Trudy E. Bell, M.A.
Independent Historian and Science Journalist
(senior writer, UC-HiPACC)
3019A Cleveland Road East
Huron, OH 44839

http://trudyebell.com/1913flood.php

t.e.bell@ieee.org or tebell@ucsc.edu

http://nationalcalamityeaster1913flood.blogspot.com/

### 1a. BIG floods happen.

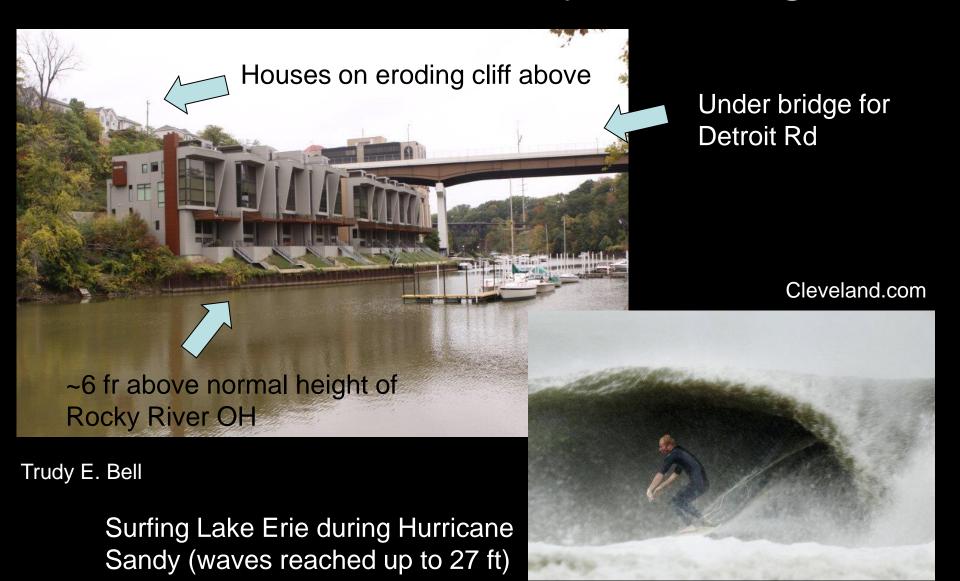


1913, Dayton OH

**Dayton Metro** 

2013, U.K.

#### 1b. What were they thinking??



## 2. Post 1913 research, I look not just at water but land



Mississippi River and floodplain

### 3. Floods have different causes



Excessive rain – 12 in 20 days Aut 2013<a href="http://sanctuarygardener.wordpress.com/">http://sanctuarygardener.wordpress.com/</a> 2013/02/27/excessive-rain-and-plants/

Storm surge, Hurricane Sandy, Southampton NY 3-28-12

http://www.trust.org/item/20131028130000-od21h/

Ice jam Vermilion River, OH 2-24-14 <a href="http://chronicle.northcoastnow.com/2014/02/2">http://chronicle.northcoastnow.com/2014/02/2</a> <a href="http://chronicle.northcoastnow.com/2014/02/2">4/vermilion-river-jam-goes/</a>





### 4. Floods in unexpected places



Heaviest rain fell at river sources

Cincinnati flooded by \*backwater\*



### 5. Floods hit industry, wealth, infrastructure



IHS

MCD



RR bridge and telegraph/telephone poles, Indianapolis IN; mansion and factory, Dayton, OH

#### 6. Power of water



Library of Congress

1913 in Chillicothe; 2013 in U.K.

Ice jam breaking, Rocky River 2014: <a href="http://www.cleveland.com/metro/inde">http://www.cleveland.com/metro/inde</a>
<a href="mailto:x.ssf/2014/02/video">x.ssf/2014/02/video</a> ice jam bursts
<a href="mailto:on-the-ro.html#incart\_river">on-the-ro.html#incart\_river</a>

## 7. Too much reliance on technology

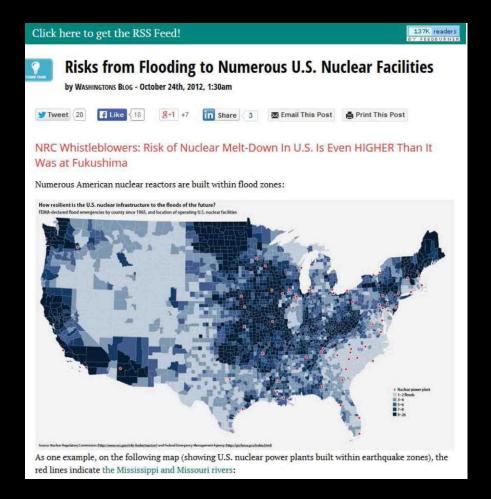


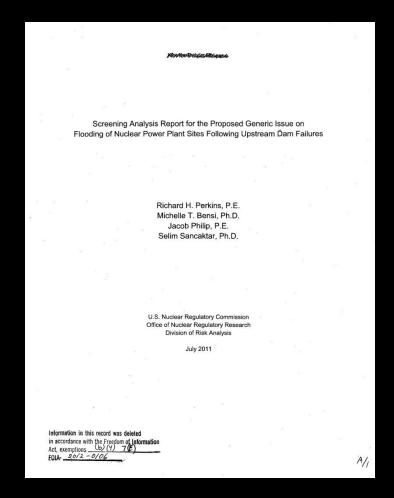
2013, ice-covered cell tower <a href="http://twistedsifter.com/2013/12/top-100-pictures-of-the-day-for-2013/">http://twistedsifter.com/2013/12/top-100-pictures-of-the-day-for-2013/</a>



1913 wind-downed telegraph/telephone communications

# 8. Magical thinking alone protects nuclear power plants





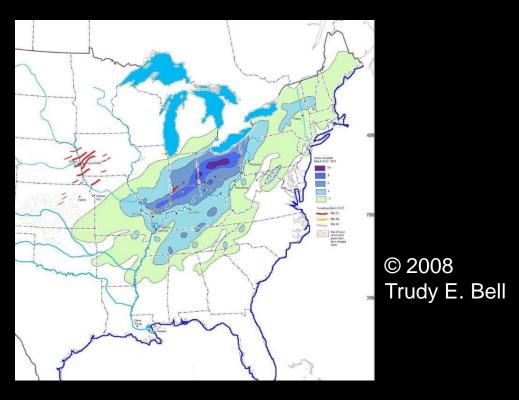
#### 8. Fire vs. flood



Fire would have meant less deadloss financial ruin because almost no one had flood insurance still true today!

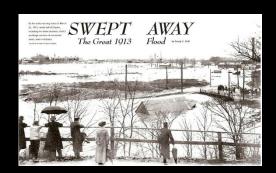
# 9. What 1913—and 2013—teach us (if we will only learn)





"There is an increasing body of evidence that extreme daily rainfall rates are becoming more intense..." (p3)

### Publications and research papers on 1913 disaster available at <a href="http://trudyebell.com/1913flood.php">http://trudyebell.com/1913flood.php</a> and <a href="http://nationalcalamityeaster1913flood.blogspot.com/">http://nationalcalamityeaster1913flood.blogspot.com/</a>









*Timeline*, Ohio Historical Society

Ohio

The Rotarian

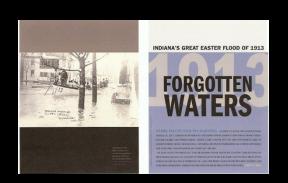
New York Archives

Two articles in engineering magazine *The Bent* of TBΠ



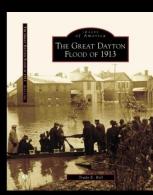


Traces, Indiana Historical Society



Arcadia book *The Great Dayton Flood of 1913* 





### Thank you!

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This presentation is dedicated to Craig B. Waff, Ph.D., May 3, 1946 - June 12, 2012 Husband, father, colleague, friend, who was with me in my 1913 flood research

from the very beginning in 2003







### NCR rescues in quickly built NCR boats – photographers everywhere

Note high water mark



### Dayton - aftermath



### One of the ironies of flood is fire

